Original/Duplicate/Triplicate

P.W.G. 17 — 1st and final Bill — **CONTRACT CERTIFICATE** — Reference paras 158 & 170

AEE, YSTSD

NO

Division: Yelahanka — Sub division: Yelahanka New Town — SBR No: 86/17-18

Bills received No — YNTSBR No. 40 — Date: 09.05.17 — Sub-divisional / Divisional — Cash book vr No — Date: 06-05-2017 — Date

Sheduled Docket No — Head of account P-1802

Name of work(as per sanctioned estimate) :- **NAME OF WORK :Drilling of borewells and providing pipeline in ward no 03**

Work Code:003-17-000054

Name of contractor and full address :- **K Gopireddy**

Reference to agreement No :- 1 — **Estimated cost : 20.00** — **Work order No:01 dt:10/04/2017**

Certified that the measurments were taken by me on 6/5/17 and recorded on pages 466002 to 466016 of measurment book No 4661 and the work is satisfactorily executed by the contractor.

Signature of contractor G. o. P. Reddy — Asst. Engineer

Certified that the measurments were taken by me on 6/5/17 and recorded correct.The work is satisfactorily executed. Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ನ್ಯೂಟೌನ್ ಉಪವಿಭಾಗ,
Sub-divisional officer
ಬಿ.ಬಿ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-64

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within		
2) Deduct amount to be held in reserve being-----percent Rs----------%---------		
3) Balance---	1st & Final	184437=00
4) Deduct payments		
a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S.D No----------Amount adjusted towards cash advance recovery of	IT	18465=00
	KST	73858=00
b) Cost of payments/stores or other materials supplied now made recovery of	LC	18465=00
Amount paid on this bill by cheque/cash	CRF	1847=00
Total		
5). Balance being unpaid value of work done held in reserve		
6) Deduct cash of advance made on divisional/sub divisional cash book	T-D	112635=00
7) Net amount due to or from contractor		
UN ADJUSTED ITEMS	Net	173802
8) Advance to contractor for materials to site(as detailed within)		
9) Value of government materials supplied.		
TOTAL AMOUNT UN-ADJUSTED		

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum

(in final settlement of all demand)

Witness

1)

2)

Reciept Stamp

G. o. P. Reddy

Audited & Admitted for Rs 184437=00

173802=00 by Cheque

and Rs 112635=00 by Cheque

Dated signature of contractor

paid by me cheque No dated

Cash Rs.....

Date — Initials of officer making payment — Executive Engineer

Asst. Engineer Yelahanka Division BBMP

Exe. Engineer Yelahanka Division BBMP

Sl.	Items grouped under Sub-heads and Sub-works of the estimate	Unit	s ement Qty	Cost	Present Measurement Qty	Rate	Amount	Total Up to date Qty	Co-t
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of	Each BW			1.00	1930.00	1930.00	1.00	1930.00
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 29/I.1 PRED SR 2006-07 and as per with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr					0.00		0.00
	0 to 50 m				50.00	300.00	15000.00	50.00	15000.00
	50 to 100 m				50.00	400.00	20000.00	50.00	20000.00

	100 to 150 m				50.00	425.00	21250.00	50.00	21250.00
	150 to 200 m				50.00	450.00	22500.00	50.00	22500.00
	200 to 250 m				50.00	550.00	27500.00	50.00	27500.00
	250 to 300 m				48.00	600.00	28800.00	48.00	28800.00
	300 to 330 m				29.90	625.00	18687.50	29.90	18687.50
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) as per corragandam with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			40.00	1300.00	52000.00	40.00	52000.00
4	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			20.00	750.00	15000.00	20.00	15000.00
5	Providing and fixing 175mm Borewell Cap with all lead and lift complete as per specification as per direction of Engineer incharge.	Each			1.00	100.00	100.00	1.00	100.00

6	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by meaans of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 10.00 HP				2.00	50000.00	100000.00	2.00	100000.00

	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. 50 mm dia including Collar Heavy Class with all lead and lift complete as per specification as per	Rmtr			510.00	360.00	183600.00	510.00	183600.00
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			1060.00	150.00	159000.00	1060.00	159000.00

9	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	3000.00	6000.00	2.00	6000.00
10	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 30/ I No. 2/f KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No			1.00	275.00	275.00	1.00	275.00

	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wi[illegible] steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 67/ I No. 10(d) 4 core 16 Sqmm KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			50.00	150.00	7500.00	50.00	7500.00
12	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, P-68 /I.No.11a) KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			50.00	5.00	250.00	50.00	250.00
13	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 P No. 68/ I. No. 12-d KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			50.00	50.00	2500.00	50.00	2500.00

14	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 69/ I No.15-A KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			8.00	200.00	1600.00	8.00	1600.00
15	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 69/ I No. 16-b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	200.00	400.00	2.00	400.00

	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, P-66, I.No.7) KPWD Electrical SR 2007-08 with all lead and lift complete as per	No			5.00	1800.00	9000.00	5.00	9000.00
17	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No. 30/I No 3b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	100.00	200.00	2.00	200.00

18	Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	1500.00	3000.00	2.00	3000.00
19	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ I. with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	200.00	400.00	2.00	400.00
20	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete with all lead and lift complete as per specification as per direction of Engineer	No			8.00	100.00	800.00	8.00	800.00
21	Supplying shunt capacitor confirming to IS 2834, 3 phase 400/400 volts grade for power factor improvement of rotaining machinary, capacitorin KVAR rating Nos. 2KVAR capacity with all	No			2.00	300.00	600.00	2.00	600.00

	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications with all lead and lift complete as per specification as per direction of Engineer incharge.	no			2.00	1000.00	2000.00	2.00	2000.00
23	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.35 P.No. 39, I. No. 39B KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Sqm.cm			32400.00	0.33	10692.00	32400.00	10692.00

24	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum-control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components	No			2.00	10000.00	20000.00	2.00	20000.00
25	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits	Cum			1630.00 1629.85	300.00	489000.00 48896/-00	1630.00 1629.85	489000.00 48896/-00

26	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and including lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.3 item No.4.2 PRE SR2008-09. with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			3500.00	150.00	525000.00	3500.00	525000.00
27	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mm, and lift upto 1.5m, including cost of all labour complete as per with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			90.00	81.58	7342.20	90.00	7342.20

28	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. with all lead and lift complete as per specification as per direction of Engineer	Each			95.00	250.00	23750.00	95.00	23750.00
29	CPVC pipe 35 mm DIA pipe (approved rate)		Rmts		600.00	102.50	61500.00	600.00	61500.00
30	**BESCOM charges**						12000.00		12000.00
					TOTAL		~~1849176.70~~ 1846437		~~1849176.70~~ 1846437

Asst. Engineer
Ward no:03

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP, Bangalore-64.